GROUP WORKSHOP 1

SOUTHEAST ASIAN COUNTRIES: CAMBODIA, REPUBLIC OF CHINA, FIJI, INDONESIA, KOREA, MALAYSIA, PHILIPPINES, THAILAND

RECOMMENDED ACTION PLAN FROM GROUP
INTRODUCTION

• Due to various level of cold chain system in different countries, the need to implement for cold chain is depended on the country and product
COLD CHAIN ISSUES IN SOUTHEAST ASIA

• All stakeholder (including leaders and policy makers) are not aware of the cold chain

• Lack of funding for cold chain system – budgeting – might be a result of unawareness

• No information of cold chain available

• Special allocation from government to implement cold chain system to marginalized farmers

• Soft and hard infrastructure (farmers couldn’t access to the cold chain system, Poor logistics, Lack of proper technology)
COLD CHAIN ISSUES IN SOUTHEAST ASIA

• Lack of proper technology examples
  • Papaya in Fiji
  • Rice in Cambodia

• Business environment & marketing drives

• Lack of catalyst (as in NCCD) — no one to care about it

• Capacity building (training farmers, transporters, retailers, and everyone in cold chain systems)
STRATEGY TO ADDRESS THE NEEDS

• Training to all stakeholder, leaders, policy makers, farmers, etc.

• SWOT analysis all role players in supply chain so that we can implement appropriate cold chain in the particular location
  • Example - Thailand has research for each of 5 regions

• Annual convention for cold chain system to share success stories and best practices (of course, funded by the APO)

• Conduct research on the tangible benefits of cold chain (earn more and lose less)

• Better have the quality assurance for cold chain
STRATEGY TO ADDRESS THE NEEDS

• Have a database of experts in every crops, produces, and products

• Technology
  • Other issues to extend the shelf life and maintain the quality such as packaging (smart packaging), pre-treatment, cold room design and construction for each application

• Design proper technology to particular location
  • For example, for no electricity area, Nepal uses sand to store produces to extend the shelf life

• ASK FOR FULL SUPPORT FROM APO!!!!!!
### INITIAL ACTION ITEMS

<table>
<thead>
<tr>
<th>Activity</th>
<th>Objectives/features/topics</th>
<th>Target participants</th>
<th>Responsible party/Convenor</th>
<th>Resource requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workshop on the status and trends on the CCS</td>
<td>Provide concept idea of CCS</td>
<td>Government, farmer, Coop, Private sector, Academia, Financial institution</td>
<td>Ministry of the Agriculture and Cooperatives Local NPC PRIVATE SECTOR</td>
<td>Technical experts from APO</td>
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<tr>
<td>Workshop on CCS</td>
<td>To create awareness (GMP, GAP, HACCP, etc.) to all stake holder</td>
<td>Government, farmer, private sector</td>
<td>Same as above</td>
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<tr>
<td>Training on technology on CCS</td>
<td>Types of CCS Design and construction of facility Time-temperature</td>
<td>Government, farmer, Coop, Private sector, Academia, Financial institution</td>
<td>Ministry of the Agriculture and Cooperatives Local NPC, private sector</td>
<td>Technical experts from APO</td>
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<tr>
<td>Promotion of CCS (fair, convention, event, etc.) year round</td>
<td>To create awareness and benefits on CCS Develop networking</td>
<td>Farmer, government, private sector</td>
<td>APO, government, private sector</td>
<td>Technical experts on APO</td>
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<tr>
<td>Set up the NCCD in each country</td>
<td>To establish and implement CCS in each country</td>
<td>Farmers, private sector</td>
<td>Government</td>
<td>Government</td>
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<tr>
<td>Research on CCS</td>
<td>To identify and develop CCS</td>
<td>Government, Academia</td>
<td>Government, university</td>
<td>Technical experts from industry and university</td>
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<tr>
<td>Financial institution assistance to develop CCS</td>
<td>Special package from the local government Low interest and incentive/subsidy to develop CCS</td>
<td>Farmer, private sector (distributor, wholesaler, logistics, retailer)</td>
<td>APO, government, financial institution</td>
<td>National/central bank directed by the government</td>
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<tr>
<td>Provide understanding and knowledge on the supply chain management (inventory, logistics, etc.) on CCS</td>
<td>Better understanding of inventory and logistics in the supply chain</td>
<td>Farmer, private sector</td>
<td>APO, government</td>
<td>Technical expert in SCM</td>
</tr>
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COLD CHAIN IS HOT !!!